IN THE CLAIMS:

- (currently amended) A catalytic reforming process having a first catalytic <u>reforming</u> zone in a lead position followed by a second catalytic <u>reforming</u> zone in a lag position to produce a reforming conversion resulting in a net hydrogen stream <u>having a reduced concentration of</u> <u>carbon monoxide</u> wherein the process comprises:
 - (a) operating the first catalytic <u>reforming</u> zone at a first inlet temperature <u>having been</u> increased to restore an original predetermined reforming conversion or product octane;
 - (b) operating the second catalytic reforming zone at a second inlet temperature <u>having</u> been reduced and that is less than the first inlet temperature and achieved in a heater that is operated below its maximum heating capacity to obtain a net hydrogen product stream <u>having a reduced concentration of carbon monoxide</u>.
- (currently amended) The process of claim 1 wherein the catalytic reforming process comprises three <u>catalytic</u> reforming zones in series.
- (currently amended) The process of claim 1 wherein the catalytic reforming process comprises four <u>eatalytic</u> reforming zones in series.
- 4. (currently amended) The process of claim 1 wherein the <u>catalytic</u> reforming process is operated at conditions including a pressure from about 270 kPa (25 psig) to about 1480 kPa (200 psig), a temperature from about 450°C (842°F) to about 550°C (1022°F), a hydrogen to hydrocarbon mole ratio from about 1 to about 5 and a liquid hourly space velocity from about 0.5 to about 4 hr⁻¹.
- (original) The process of claim 1 wherein the second inlet temperature is operated at a temperature of at least 5°C (9°F) less than the first inlet temperature.
- (original) The process of claim 1 wherein the second inlet temperature is operated at a
 temperature in the range from about 5°C (9°F) to about 20°C (36°F) less than the first inlet
 temperature.

- 7. (currently amended) A catalytic reforming process having a plurality of catalytic reforming zones in series having a first catalytic reforming zone in a lead position followed by a second catalytic reforming zone in a lag position to produce a reforming conversion resulting in a net hydrogen product stream having a reduced concentration of carbon monoxide wherein the process comprises:
 - (a) operating the first catalytic <u>reforming</u> zone at a first inlet temperature <u>having been</u> increased to restore an original predetermined reforming conversion or product octane and to thereby reduce the concentration of carbon monoxide in the net hydrogen product stream; and
 - (b) operating the second catalytic <u>reforming</u> zone at a second inlet temperature <u>having</u> <u>been reduced and</u> that is less than the first inlet temperature and achieved in a heater that is operated below its maximum heating capacity to obtain a net hydrogen product stream <u>having a reduced concentration of carbon monoxide</u>.
- 8. (original) The process of claim 7 wherein a net hydrogen product stream contains from about 0.1 to about 20 vppm carbon monoxide.
- 9. (currently amended) The process of claim 7 wherein the catalytic reforming process is operated at conditions including a pressure from about 270 kPa (25 psig) to about 1480 kPa (200 psig), a temperature from about 450°C (842°F) to about 550°C (1022°F), a hydrogen to hydrocarbon mole ratio from about 1 to about 5 and a liquid hourly space velocity from about 0.5 to about 4 hr⁻¹.
- 10. (currently amended) The process of claim 7 wherein the last catalytic <u>reforming</u> zone inlet temperature is operated at a temperature in the range from about 5°C (9°F) to about 20°C (36°F) less than the remaining upstream catalytic <u>reforming</u> zone inlet temperature[[s]].
- 11. (currently amended) A catalytic reforming process having four catalytic reforming zones in series to produce a reforming conversion resulting in a net hydrogen product stream having a reduced concentration of carbon monoxide wherein the process comprises:

- (a) operating the first three catalytic <u>reforming</u> zones at similar operating inlet temperatures <u>having been increased to restore an original predetermined reforming</u> <u>conversion or product octane and</u> to thereby reduce the concentration of carbon monoxide in the net hydrogen product stream; and
- (b) operating the fourth catalytic <u>reforming</u> zone located in the lag position at an inlet temperature <u>having been reduced and</u> that is 5°C (9°F) to about 20°C (36°F) less than the three lead catalytic <u>reforming</u> zones and achieved in a heater that is operated below its maximum heating capacity to obtain the net hydrogen product stream <u>having a reduced</u> concentration of carbon monoxide.
- 12. (original) The process of claim 11 wherein the net hydrogen product stream has a reduced concentration of carbon monoxide from about 0.1 to about 20 vppm carbon monoxide.
- 13. (currently amended) The process of claim 11 wherein the catalytic reforming process is operated at conditions including a pressure from about 270 kPa (25 psig) to about 1480 kPa (200 psig), a temperature from about 450°C (842°F) to about 550°C (1022°F), a hydrogen to hydrocarbon mole ratio from about 1 to about 5 and a liquid hourly space velocity from about 0.5 to about 4 hr. 1.